NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/AMG/2022-23/P2-2/C1 Date: 08-02-2023

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**179 min**	Shall not be less than 30 min
2	Final setting time	**257 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.04 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.01 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.11 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

A sector 7th A Main Rd PCC

AE-02

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NC/QC/AMG/2022-23/P2-2/PCC1 **Date: 08-02-2023**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-02).}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer, Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.40	0 -20	30- 70
10mm	27.90	0 -5	10- 35
4.75mm	2.60	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.70	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	79.40	60-95	75-100	85-100	
01.18	62.90	30-70	55-90	75-100	
600.mic	38.50	15-34	35-59	60-79	
300.mic	27.80	5-20	8-30	12-40	
150.mic	7.60	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

A sector 7th A Main Rd RHS Drain PCC

NEWZEN CONSULTANT Bangalore

A.E E

NC/QC/AMG/2022-23/P2-2/CE1 Date: 17-02-2023

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161 min**	Shall not be less than 30 min
2	Final setting time	**285 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.96 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.82 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.03 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

A sector 7th A Main Rd RHS Drain

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A.E.E,

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NC/QC/AMG/2022-23/P2-2/CA1 **Date: 17-02-2023**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**93.80**	85-100	90 - 100
10 mm	**31.40**	0 - 20	25 - 55
4.75 mm	**8.90**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**24.10 %**	Not to exceed 25 %
2.	Crushing value	**27.32 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

A sector 7th A Main Rd RHS Drain

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A.E.E.

NC/QC/AMG/2022-23/P2-2/CB2 Date: 01-03-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer, Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-02-23	01-03-23	07	22500	350	15.56	16.07
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	375	16.67	

The result of the materials tested meets the standards and hence can be used for the work

Tata Ramesh House Rd RHS Drain

AG-02

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/AMG/2022-23/P2-2/PB4 **Date: 31-03-2023**

TEST REPORT

Sub: Testing of Pre-cast Paver Blocks of thickness 75mm.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh

Technical Reference*: IS 15658-2006.
I section

PHYSICAL TESTS ON PRECAST PAVER BLOCKS.

1.COMPRESSIVE STRENGTH:

Sl No	Identification	Load KN	Compressive Strength, N/mm^2	Average Compressive Strength, N/mm^2
1	001	845	33.53	**32.41**
2	002	810	32.14	
3	003	830	32.93	
4	004	800	31.74	
5	005	795	31.55	
6	006	820	32.54	

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Balaji Layout Main Road

AE-02

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2. Properties of Aggregates:

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.47 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.51**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.35**	----------
5.	Aggregate Impact Value, %	**28.42**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work

AE-02

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/AMG/2022-23/P2-2/BD1 Date: 21-03-2023

I. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.

Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**50.40^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**96.10 cm**	40
3.	Flash point	**244^0 C**	Minimum 220^0 C
4.	Softening point	**48.70^0 C**	Min. 47

The result of the materials tested meets the standards and hence can be used for the work

th Phase Rd 6th Main Rd From 2nd Cross Rd

AE-02

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2. **Gradation Test** – Extraction Sample

TABLE 2.1

Sample C1 **DBM** = Total Weight of the Sample (gm) : 502.00					
ieve ize, nm	**Weight Retained (gm)**	**Cumulative Weight Retained (gm)**	**Cumulative % of Retained**	**Cumulative % of Passing**	**Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)**
7.5	0.00	0.00	0.00	**100.00**	100
6.5	31.00	31.00	6.18	**93.82**	90-100
9.0	104.00	135.00	26.89	**73.11**	71-95
3.20	64.00	199.00	39.64	**60.36**	56-80
.75	97.00	296.00	58.96	**41.04**	38-54
.36	58.00	354.00	70.52	**29.48**	28-42
.300	109.00	463.00	92.23	**7.77**	7-21
.075	24.00	487.00	97.01	**2.99**	2-8
Pan	15.00	502.00	100.00	**0.00**	---

Properties of DBM (Gr-2) Mix - Stability of Bituminous Mix

Sl. No.	**Test Property**	***Test results obtained by Marshall method**	**Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications**
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1069**	900
2	Marshall Flow at 60°C, mm.	**2.97**	2.0 - 4.0

he result of the materials tested meets the standards and hence can be used for the work

A.E.E.

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C/AMG/2022-23/P2-2/BC2 **Date: 24-03-2023**

T REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

To determine the percentage of bitumen and gradation for BC mix sample.

ct*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Material testing/PMC/22-23,

Required for: Assistant Executive Engineer, Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.

of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh

TEST RESULTS

.. Type of Construction : **Bituminous Concrete**

ocation: 5th Phase Rd 2nd Cross Rd From Shiva Mandhir Rd'

TUMEN EXTRACTION TEST – BC

ABLE 1.1

D.	Description	Index	C1
	Weight of the Sample, gm	S1	500.00
	Weight of the Sample After Extraction, gm	S2	474.00
	Initial weight of Filter paper, gm	F1	4.00
	Final weight of Filter paper, gm	F2	5.00
	Difference in weight of Filter Paper, gm	F= F2-F1	1.00
	Bitumen Content, %	$\frac{S1-S2+F}{S1} \times 100$	**5.40**

A.E.E.

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NC/QC/AMG/2022-23/P2-2/BC3 Date: 25-03-2023

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*. Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
Location: 5th Phase Rd 6th Main Rd From 2nd Cross Rd

1. BITUMEN EXTRACTION TEST – BC
TABLE 1.1

Sl no.	Description	Index	C1
1	Weight of the Sample, gm	S1	510.00
2	Weight of the Sample After Extraction, gm	S2	483.00
3	Initial weight of Filter paper, gm	F1	5.00
4	Final weight of Filter paper, gm	F2	6.00
5	Difference in weight of Filter Paper, gm	F= F2-F1	1.00
6	Bitumen Content, %	$\frac{S1-S2+F}{S1} \times 100$	**5.49**

A.E.E.

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NC/QC/AMG/2022-23/P2-2/DLC3 **Date: 30-01-2023**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer, Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	61.50	0 -20	30- 70
10mm	14.20	0 -5	10- 35
4.75mm	4.40	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.40	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	79.10	60-95	75-100	85-100	
01.18	62.80	30-70	55-90	75-100	
600.mic	39.50	15-34	35-59	60-79	
300.mic	17.00	5-20	8-30	12-40	
150.mic	7.90	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Kondappa Layout Amdekar Bidi Rd From Main Rd

A.E.E.

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/QC/AMG/2022-23/P2-2/CR1 **Date: 20-02-2023**

TEST REPORT ON CEMENT CONCRETE CUBES:

b: Testing of Concrete Cubes (for 07days Compressive Strength).

oject*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) !

f.: Material testing/PMC/22-23,

port Required for: Assistant Executive Engineer, Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.

me of the Agency/Contractor*. M/s Nandi Constructions, Sri . Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

ABLE 1.1:

l o	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-02-23	20-02-23	07	22500	470	20.89	**21.33**
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	475	21.11	

The result of the materials tested meets the standards and hence can be used for the work.

.ondappa Layout Tata Ramesh House Rd

AE-02

A.E.E.

NEWZEN CONSULTANT Bangalore

C/AMG/2022-23/P2-2/CR3 Date: 22-02-23

EST REPORT ON CEMENT CONCRETE CUBES:

Testing of Concrete Cubes (for 07days Compressive Strength).

ect*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Material testing/PMC/22-23,

rt Required for. Assistant Executive Engineer, Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.

e of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

ABLE 1.1:

l o	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
	001	15-02-23	22-02-23	07	22500	490	21.78	
l	002	"	"	"	"	470	20.89	**21.41**
	003	"	"	"	"	485	21.56	

The result of the materials tested meets the standards and hence can be used for the work.

Kondappa Layout Jnabharathi School Side Main Road From 25th Cross RD

AE-12

A.E.E.

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NC/QC/AMG/2022-23/P2-2/CR6A

Date: 20-03-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref.: Material testing/PMC/22-23,

Report Required for. Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division,BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-02-23	20-03-23	28	22500	700	31.11	**30.74**
	002	"	"	"	"	690	30.67	
	003	"	"	"	"	685	30.44	

The result of the materials tested meets the standards and hence can be used for the work.

Kondappa Layout Amdekar Bidi Rd From Main Rd

AE-12

A.E.E.

NEWZEN CONSULTANT Bangalore

EMAIL:newzen576@gmail.com

NC/QC/AMG/2022-23/P2-2/CR7

Date: 27-02-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-02-23	27-02-23	07	22500	495	22.00	**22.37**
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.

Kondappa Layout 26th Cross Rd

A.E.E.

NEWZEN CONSULTANT Bangalore

NC/QC/AMG/2022-23/P2-2/K2 **Date: 04-04-2023**

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub Division,BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

1. PHYSICAL TESTS ON KERB STONES :

Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
50.00	85.00	0.387	2318.79	1.70	0.960	32.70	16.65	17.99	17.27	21.58
50.00	85.00	0.391	2342.76	1.70	0.960	33.90	17.27	18.65	17.90	22.38
50.00	85.00	0.400	2396.69	1.70	0.960	32.40	16.50	17.82	17.11	21.39

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : A-sector 7th A Main Rd RHS

AE-02

A.E.F.

NEWZEN CONSULTANT ★ Bangalore ★

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